



PN01-0511-1-16

## Catalytic Oxidizer Unit

### *Problem*

INEEL's Radioactive Waste Management Complex remediation project needed a reliable method to treat volatile organic contaminants removed from the Subsurface Disposal Area.

### *Baseline Technology*

A thermal oxidizer was used to treat contaminants.

### *Innovative Technology*

The Catalytic Oxidizer Unit is a commercially available treatment system that uses an electrically heated catalytic converter to oxidize organic contaminants.

### *Comparison*

This oxidizer is enhanced to have greater capacity and is more efficient and reliable than the baseline system.

### *Benefits*

This oxidizer is expected to use less energy and require less maintenance, resulting in a lifecycle cost savings of \$5.9 million.



#### ENVIRONMENTAL RESTORATION PROGRAM

Project: ID-ER-107  
Radioactive Waste Management Complex Remediation